

Storage Account

Storage account : Simple object storage
images, video, files, doc
it is similar like google drive
storage account name should be unique across all azure accounts
all should be lowercase letters and numbers
3-24 character longs

four data storages:

container (blob storage):

- a. block blob : can store massive unstructured data , images, videos, etc.,
- b. page blob : it is recommended to store virtual machine files .vhd
- c. append blob : can store all log files |

file shares

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four data storages:

container (blob storage):

- a. block blob : can store massive unstructured data , images, videos, etc.,
- b. page blob : it is recommended to store virtual machine files .vhd
- c. append blob : can store all log files

file shares : Network shared folder

Tables : NoSQL, or cosmos db,

Queues: messaging system,

Service bus

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Create a storage account

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Azure subscription 1

Resource group *

(New) UstorageA

[Create new](#)

Instance details

Storage account name * ⓘ

udaystorageaccount123

Region * ⓘ

(US) Central US

[Deploy to an Azure Extended Zone](#)

Preferred storage type

Choose preferred storage type

This helps us provide relevant guidance. It doesn't restrict your storage to this resource type. [Learn more](#)

Standard: Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

Redundancy * ⓘ

Locally-redundant storage (LRS)

[Previous](#)[Next](#)**Review + create**

Instance details

Storage account name * ⓘ

Locally-redundant storage (LRS):

Lowest-cost option with basic protection against server rack and drive failures. Recommended for non-critical scenarios.

Region * ⓘ

Geo-redundant storage (GRS):

Intermediate option with failover capabilities in a secondary region. Recommended for backup scenarios.

Preferred storage type

Zone-redundant storage (ZRS):

Intermediate option with protection against datacenter-level failures. Recommended for high availability scenarios.

Performance * ⓘ

Geo-zone-redundant storage (GZRS):

Optimal data protection solution that includes the offerings of both GRS and ZRS. Recommended for critical data scenarios.

Redundancy * ⓘ

Locally-redundant storage (LRS)

Create a storage account

...

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review + create

Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ

Allow enabling anonymous access on individual containers ⓘ

Enable storage account key access ⓘ

Default to Microsoft Entra authorization in the Azure portal ⓘ

Minimum TLS version ⓘ

Permitted scope for copy operations (preview) ⓘ

Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more ↗](#)

Enable hierarchical namespace ⓘ

Access protocols

[Previous](#)

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Review + create

Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more ↗](#)

Enable SFTP ⓘ

ⓘ SFTP can only be enabled for hierarchical namespace accounts

Enable network file system v3 ⓘ

ⓘ To enable NFS v3 'hierarchical namespace' must be enabled. [Learn more about NFS v3 ↗](#)

Blob storage

Allow cross-tenant replication ⓘ

Access tier ⓘ

Hot

Optimized for frequently accessed data and everyday usage scenarios

Cool

Optimized for infrequently accessed data and backup scenarios

Cold

Optimized for rarely accessed data and backup scenarios

Azure Files

Enable large file shares ⓘ

Enable Managed Identity for SMB ⓘ

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Review + create

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Public access

Access your resource from anywhere through a public network.

Note: Allowing access to your resource through a public network increases security risk. [Learn more ↗](#)

Public network access * ⓘ

Enable

Allow inbound and outbound access with the option to restrict select inbound access using resource access configurations for this resource.

Disable

Restrict inbound access while allowing outbound access.

Secure by perimeter (Most restricted)

Restrict inbound and outbound access using a network security perimeter. Secure by perimeter offers the greatest level of inbound and outbound restriction to secure your resource.

Public network access scope *

Enable from all networks

Enable from selected virtual networks and IP addresses

⚠ Enabling public network access will make this resource available publicly. Unless public access is required, consider using the most restricted access configurations.

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Basics Advanced Networking **Data protection** Encryption Tags Review + create

Recovery

Protect your data from accidental or erroneous deletion or modification.

Enable point-in-time restore for containers

Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more ↗](#)

Enable soft delete for blobs

Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more ↗](#)

Days to retain deleted blobs ⓘ

7

Enable soft delete for containers

Soft delete enables you to recover containers that were previously marked for deletion. [Learn more ↗](#)

Enabling soft delete for frequently overwritten data may result in increased storage costs. [Learn more ↗](#)

Days to retain deleted containers ⓘ

7

Enable soft delete for file shares

Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more ↗](#)

Days to retain deleted file shares ⓘ

7

- ✓ Above data protection work like Recycle bin after deletion data will be stored for some days for that we should specify the number.
- ✓ But for now, we should disable options above.

Create a storage account ...

Basics Advanced Networking Data protection **Encryption** Tags Review + create

Encryption type * ⓘ

Microsoft-managed keys (MMK)

Customer-managed keys (CMK)

Enable support for customer-managed keys ⓘ

Blobs and files only

All service types (blobs, files, tables, and queues)

⚠ This option cannot be changed after this storage account is created.

Enable infrastructure encryption ⓘ

- ✓ Created storage account.

udaystorageaccount123 | Overview

Storage account

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Resource visualizer

> Data storage

> Security + networking

> Data management

> Settings

> Monitoring

> Monitoring (classic)

> Automation

Add or remove favorites by pressing Ctrl+Shift+F

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Resource group (move) : [UstorageA](#) Performance : Standard

Location : centralus Replication : Locally-redundant storage (LRS)

Subscription (move) : [Azure subscription 1](#) Account kind : StorageV2 (general purpose v2)

Subscription ID : 5d75b66d-66bf-44e0-8d7e-7e61e4b043d7 Provisioning state : Succeeded

Disk state : Available Created : 06/02/2026, 16:16:56

Tags ([edit](#)) : [Add tags](#)

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials Tools + SDKs

Blob service

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Hot	Storage account key access	Enabled
Blob anonymous access	Enabled	Minimum TLS version	Version 1.2
Blob soft delete	Disabled	Infrastructure encryption	Disabled
Container soft delete	Disabled		
Versioning	Disabled		
Change feed	Disabled		
NFS v3	Disabled		
Allow cross-tenant replication	Disabled		
Storage tasks assignments	None		

Security

Public network access	Enabled
Public network access scope	Enable from all networks
Private endpoint connections	0
Network routing	Microsoft network routing

Networking

Public network access	Enabled
Public network access scope	Enable from all networks
Private endpoint connections	0
Network routing	Microsoft network routing

✓ Data storage

Containers

File shares

Queues

Tables

The screenshot shows the Azure Storage Explorer interface. On the left, there's a sidebar with links like Storage browser, Storage Mover, Partner solutions, Resource visualizer, and Data storage (which is expanded to show Containers, File shares, Queues, and Tables). The main area is titled 'udaystorageaccount123 | Containers'. It has a search bar, navigation buttons, and a table showing 0 items. A modal window titled 'New container' is open, prompting for a name ('udaycon1') and access level ('Private (no anonymous access)'). Other options like 'Anonymous access level' and 'Container (anonymous read access for containers and blobs)' are also visible.

- ✓ To enable **Anonymous access level**, we ticked the below option while creating storage account.

Create a storage account

The screenshot shows the 'Create a storage account' wizard in the Azure portal. The 'Advanced' tab is selected. In the 'Security' section, three checkboxes are checked: 'Require secure transfer for REST API operations', 'Allow enabling anonymous access on individual containers', and 'Enable storage account key access'. There are tabs for Basics, Networking, Data protection, Encryption, Tags, and Review + create.

✓ Created Blob and Container

The screenshot shows the Azure Storage Browser interface. On the left, there's a sidebar with options like Storage Mover, Partner solutions, Resource visualizer, Data storage (Containers selected), File shares, Queues, and Tables. The main area shows a list of containers under 'Showing all 2 items'. There are two entries: 'udaycon1' and 'udaycon2'. Both have a blue folder icon next to them. The columns are 'Name', 'Last modified', 'Anonymous access level', and 'Lease state'. 'udaycon1' was modified on 06/02/2026 at 16:30:42, has 'Blob' anonymous access, and is 'Available'. 'udaycon2' was modified on 06/02/2026 at 16:31:23, has 'Container' anonymous access, and is 'Available'.

✓ Now let's upload files on containers

This screenshot shows the Azure Storage Explorer interface for the 'udaycon1' container. On the left, the sidebar shows 'Overview' selected. The main area lists 'udaycon1' with its details: 'Authentication method: Access key (Switch to Microsoft Entra user account)'. Below it is a search bar for blobs. The table shows 'Showing all 0 items'. On the right, a modal window titled 'Upload blob' is open. It has a large dashed box for dragging files, a 'Browse for files' button, and an 'Upload' button at the bottom. There are also checkboxes for 'Overwrite if files already exist' and 'Advanced' settings.

✓ Browse files and upload to container and copy the URL in Properties.

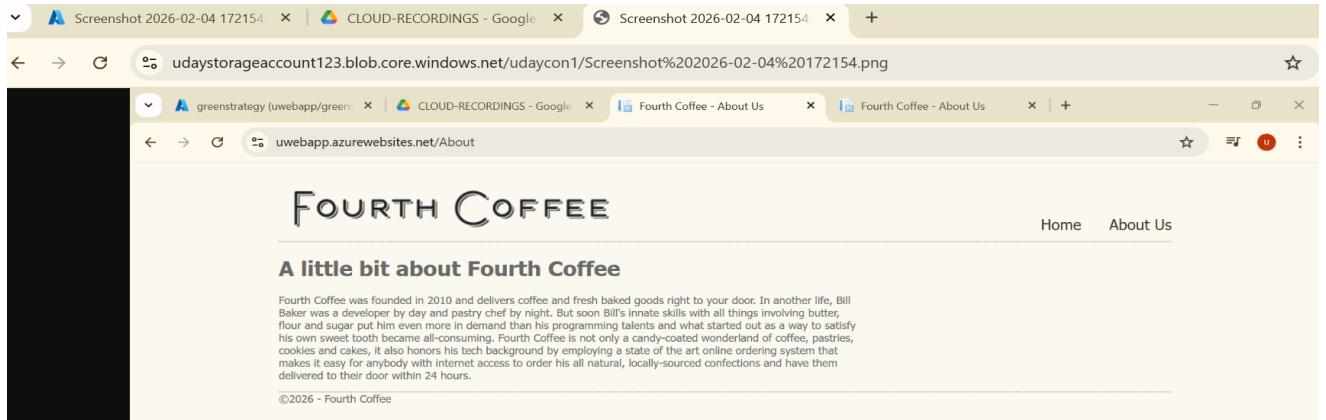
This screenshot shows the Azure Storage Explorer interface for the 'udaycon1' container. The 'Overview' tab is selected. A blob named 'Screenshot 2026-02-04 172154.png' is listed. The properties pane on the right shows the following details:

Properties	Value
URL	https://udaystorageacc...
LAST MODIFIED	06/02/2026, 4:40:03 pm
CREATION TIME	06/02/2026, 4:40:03 pm
VERSION ID	-
TYPE	Block blob
SIZE	230.38 KB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DE6570471E9F77
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	[empty]
CONTENT-TYPE	image/png

- ✓ Below is URL(Contains StorageAcc name/container/image name)

<https://udaystorageaccount123.blob.core.windows.net/udaycon1/Screenshot%202026-02-04%20172154.png>

- ✓ When we paste on browser it shows the image.



- ✓ Let's upload on container-2 now

<https://udaystorageaccount123.blob.core.windows.net/udaycon2/paint1.png>



- ✓ Below I uploaded multiple files in
 - container1

The screenshot shows the Azure Storage Explorer interface for a container named 'Container1'. The left sidebar has 'Overview' selected. The main area displays a table of 7 items:

Name	Last modified	Access tier	Blob type	Size	Lease state
All the ALL functions-blank.pbix	06/02/2026, 17:00:10	Hot (Inferred)	Block blob	629 KiB	Available
OT Document -24.1.pdf	06/02/2026, 17:00:12	Hot (Inferred)	Block blob	16.8 MiB	Available
Power BI Practice.pbix	06/02/2026, 17:00:10	Hot (Inferred)	Block blob	646.71 KiB	Available
Screenshot 2026-02-04 172154.png	06/02/2026, 16:40:03	Hot (Inferred)	Block blob	230.38 KiB	Available
powerbi-demo-1.pbix	06/02/2026, 17:00:09	Hot (Inferred)	Block blob	920.23 KiB	Available
sample-chocolate-shipments-data-all-Apr-2025 (1).xlsx	06/02/2026, 17:00:09	Hot (Inferred)	Block blob	1.28 MiB	Available
sample-chocolate-shipments-data-all-Apr-2025.xlsx	06/02/2026, 17:00:09	Hot (Inferred)	Block blob	1.28 MiB	Available

- Container2

The screenshot shows the Azure Storage Explorer interface for a container named 'Container2'. The left sidebar has 'Overview' selected. The main area displays a table of 4 items:

Name	Last modified	Access tier	Blob type	Size	Lease state
April 7-Day 11 opentext.txt	06/02/2026, 17:02:13	Hot (Inferred)	Block blob	10.07 KiB	Available
Content server and Cluster Architecture chart.png	06/02/2026, 17:02:15	Hot (Inferred)	Block blob	1.71 MiB	Available
Content_Server_and_Cluster_Architecture_Corrected.pdf	06/02/2026, 17:02:13	Hot (Inferred)	Block blob	2.47 KiB	Available
paint1.png	06/02/2026, 16:54:18	Hot (Inferred)	Block blob	58.43 KiB	Available

- ✓ To list files from both containers, we have to use below link

The screenshot shows a Google search results page. The search query 'list blob files' is entered in the search bar. The results include a link to 'List Blobs (REST API) - Azure Storage'.

Microsoft Learn
<https://learn.microsoft.com/rest/api/storageservices/> ::

List Blobs (REST API) - Azure Storage

The List Blobs operation returns a list of the blobs under the specified container. Request You can construct the List Blobs request as follows. [Read more](#)

Method	Request URI	HTTP version
GET	<code>https://myaccount.blob.core.windows.net/mycontainer?</code> <code>restype=container&comp=list</code>	HTTP/1.1

- ✓ Copy the link from

Method	Request URI	HTTP version
GET	https://myaccount.blob.core.windows.net/mycontainer?restype=container&comp=list	HTTP/1.1

➤ This for Blob



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<r><Error>
  <Code>ResourceNotFound</Code>
  <Message>The specified resource does not exist. RequestId:f46499c5-401e-0060-355d-974cb7000000 Time:2026-02-06T11:43:29.8535508Z</Message>
</Error>
```

➤ This is for Container



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<r><EnumerationResults ContainerName="https://udaystorageaccount123.blob.core.windows.net/udaycon2">
  <Blobs>
    <Blob>
      <Name>April 7-Day 11 opentext.txt</Name>
      <Url>https://udaystorageaccount123.blob.core.windows.net/udaycon2/April 7-Day 11 opentext.txt</Url>
      <Properties>
        <Last-Modified>Fri, 06 Feb 2026 11:32:13 GMT</Last-Modified>
        <Etag>0x8DE65735FBB192A</Etag>
        <Content-Length>10313</Content-Length>
        <Content-Type>text/plain</Content-Type>
        <Content-Encoding/>
        <Content-Language/>
        <Content-MD5>ycwWfm8++fnJkw0bznZ00A==</Content-MD5>
        <Cache-Control/>
        <BlobType>BlockBlob</BlobType>
        <LeaseStatus>unlocked</LeaseStatus>
      </Properties>
    </Blob>
    <Blob>
      <Name>Content server and Cluster Architecture chart.png</Name>
      <Url>https://udaystorageaccount123.blob.core.windows.net/udaycon2/Content server and Cluster Architecture chart.png</Url>
      <Properties>
        <Last-Modified>Fri, 06 Feb 2026 11:32:15 GMT</Last-Modified>
        <Etag>0x8DE657360D6BF56</Etag>
        <Content-Length>1794016</Content-Length>
        <Content-Type>image/png</Content-Type>
        <Content-Encoding/>
        <Content-Language/>
        <Content-MD5>5MCJB1bkQjY0S22bIgagpA==</Content-MD5>
        <Cache-Control/>
        <BlobType>BlockBlob</BlobType>
        <LeaseStatus>unlocked</LeaseStatus>
      </Properties>
    </Blob>
    <Blob>
      <Name>Content_Server_and_Cluster_Architecture_Corrected.pdf</Name>
      <Url>https://udaystorageaccount123.blob.core.windows.net/udaycon2/Content_Server_and_Cluster_Architecture_Corrected.pdf</Url>
      <Properties>
        <Last-Modified>Fri, 06 Feb 2026 11:32:13 GMT</Last-Modified>
        <Etag>0x8DE65735FBB192A</Etag>
```

Note: At container level we can access files but blob level we can't access files.

❖ How to host static website-

The screenshot shows the Microsoft Azure Storage center interface. On the left, there's a sidebar with options like Overview, All storage resources, Object storage, File storage, Block storage, Data management, Migration, Partner solutions, Management services, and Help. The main area is titled "Storage center | Blob Storage" and shows a list of storage accounts. One account, "udaystorageaccount123", is selected. A modal window titled "udaystorageaccount123 | Static website" is open. Inside this modal, under the "Static website" section, the "Enabled" button is highlighted. Below this, there are fields for "Index document name" (set to "index.html") and "Error document path" (set to "error.html"). Other sections visible include "Storage Actions", "Redundancy", "Data protection", "Object replication", "Blob inventory", "Lifecycle management", "Azure AI Search", "Settings", "Monitoring", and "Monitoring (classic)".

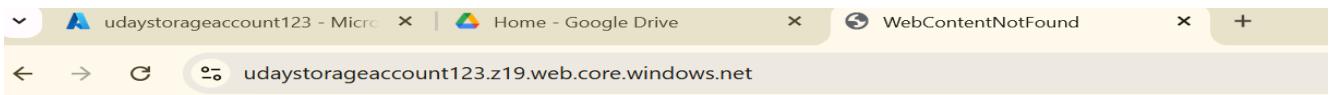
✓ Enable static website and give html code of your website and save.

This screenshot shows the "udaystorageaccount123 | Static website" configuration page. The "Static website" section is active, with the "Enabled" button highlighted. The "Index document name" is set to "index.html" and the "Error document path" is set to "error.html". A note at the top right suggests using Azure Front Door to improve page load times. The left sidebar lists other management options: Storage moves, Partner solutions, Resource visualizer, Data storage, Security + networking, Data management (with sub-options like Storage Actions, Redundancy, Data protection, Object replication, Blob inventory), Static website (which is selected and highlighted in grey), Lifecycle management, and Azure AI Search. There are also links for Settings, Monitoring, and Monitoring (classic).

- ✓ After save, we get Primary endpoint URL copy and run on website.

The screenshot shows the 'Static website' configuration for the 'udaystorageaccount123' storage account. The 'Enabled' button is highlighted in blue, indicating the static website is active. The primary endpoint is set to <https://udaystorageaccount123.z19.web.core.windows.net/>. The index document name is set to 'index.html', and the error document path is set to 'error.html'. A success message at the top right states: 'Successfully updated static website settings'.

- ✓ We will get below output.



The requested content does not exist.

- HttpStatusCode: 404
- ErrorCode: WebContentNotFound
- RequestId : 46044e65-201e-0066-4583-977f08000000
- TimeStamp : 2026-02-06T16:11:58.5498235Z

- ✓ Next go to containers, we see 2 more containers. Go to web container and upload **index.html** file which we are uploaded for static website

The screenshot shows the 'Containers' section of the 'udaystorageaccount123' storage account. It lists four containers: '\$logs', '\$web', 'udaycon1', and 'udaycon2'. The '\$web' container is highlighted in blue, indicating it is the active web container. The 'Containers' tab is selected in the left navigation menu.

Name	Last modified	Anonymous access level	Lease state
\$logs	06/02/2026, 21:40:03	Private	Available
\$web	06/02/2026, 21:40:03	Private	Available
udaycon1	06/02/2026, 16:30:42	Blob	Available
udaycon2	06/02/2026, 16:31:23	Container	Available

The screenshot shows the Microsoft Azure Storage center interface. A message box at the top right indicates "Successfully uploaded blob(s)" and "Successfully uploaded 1 blob(s)". The main area displays a list of blobs in a container named '\$web'. One blob, 'index.htm', is listed with details: Last modified 06/02/2026, 21:53:31, Access tier Hot (Inferred), Blob type Block blob, Size 109 B, Lease state Available.

✓ Refresh the primary endpoint URL website then we can see website open.

- ❖ Below is how to map Domain name from primary endpoint to our own name.
- ❖ For that we use **DNS** and **Host C**
- ❖ By using below steps, we can use our domain name

The screenshot shows the Azure Storage account 'krishnastore298734' Networking settings. Under the 'Custom domain' tab, it says: 'Configure a custom domain for accessing blob data in your Azure storage account, like www.contoso.com. There are two methods you can use to set up a custom domain.' Two steps are outlined:

1. Create a CNAME record with your DNS provider that points from your domain (like www.contoso.com) to krishnastore298734.blob.core.windows.net then enter your domain below. This method is simpler, but results in a brief downtime while Azure verifies the domain registration.
2. Create a CNAME record with your DNS provider that points from the "asverify" subdomain (like asverify.www.contoso.com) to asverify.krishnastore298734.blob.core.windows.net. After this step completes, enter your domain below (exclude "asverify"). This method does not incur any downtime. To use this method, select the 'Use indirect CNAME validation' checkbox.

Domain name: krishasdf

Use indirect CNAME validation

Save Cancel